

December 14, 2020

FOCUS ON: Transportation



HARTWELL ZONING & TRANSPORTATION December 14, 2020 Agenda



Welcome

Overview of Sustainability Discussion

Stella Carr, Director of Sustainability: Town of Lexington

Transportation Overview

Sheila Page - Assistant Planning Director: Town of Lexington

Encouraging Alternative Modes

Peter Sutton - State Bicycle and Pedestrian Coordinator: MassDOT

Managing Transportation Demand

Lispeth Tibbits-Nutt

Manager Communications, Research & Education: 128 Business Council

Using Zoning to Help Mitigate Traffic

Eric Bourassa: Transportation Director: MAPC

Discussion/Q & A

Ground Rules

- Please remain on mute
- Please use your real name as your screen name
- In the interest of time, the Discussion and Q & A will be at the end,
- Please use the raise hand function to speak. Or *9 on your phone
- If you cannot raise you hand please use the chat function.
- This meeting is being recorded.
- The recorded meeting and all the resources will be available on the Town website: www.HIPLexington.com

FORUM WILL BE INTERACTIVE

RAISE YOUR HAND

To speak use the raise hand function Or dial *9 on your phone

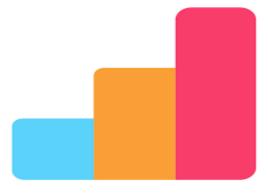


CHAT

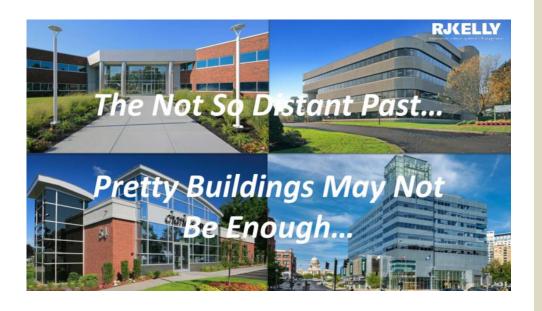
Use the chat function if you need technical help



POLL



Hartwell Initiative Sustainability Recap



LL INNOVATION PARK

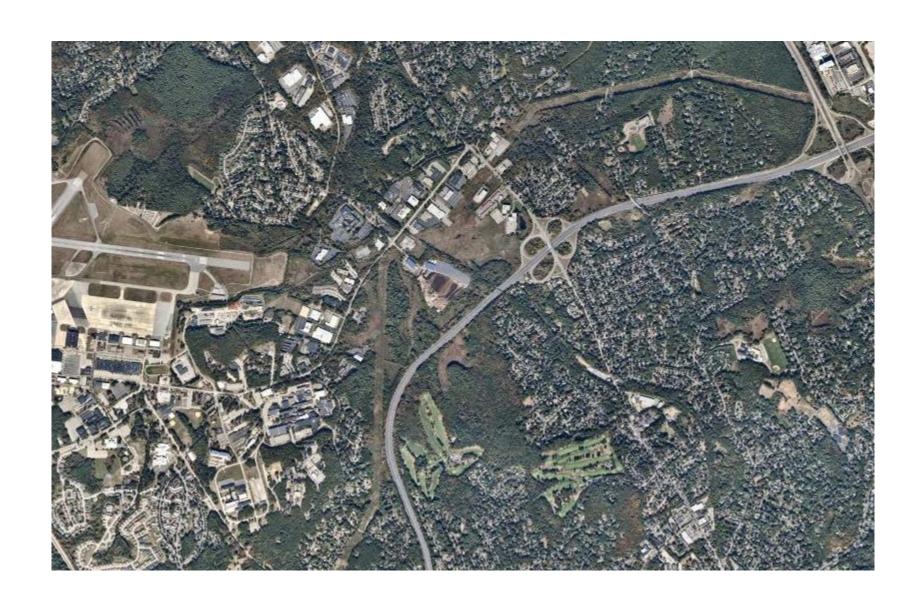
What is important? *Polling results*

HIP Built Environment

- 1. Decrease emissions produced by buildings
- 2. Maximize alternative non-car transportation options
- 3. Visible sustainability (solar, recycling, etc)

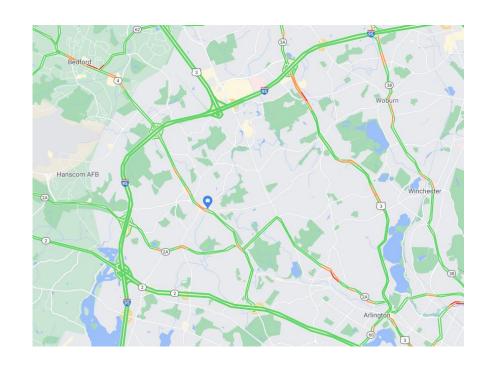
HIP Natural Environment

- 1. Decrease emissions produced by vehicles
- 2. Manage Storm water
- 3. Prioritize native species in green spaces



What We Know:

- The region has a traffic problem
- Commuting and transportation patterns have been disrupted.
- Difficult to predict post-COVID
- Traffic will take time to rebound and normalize.
- Growth will be incremental.



What we know:

- Traffic is bad: Level of Service (LOS) between C and F but mostly F
 - Hartwell/Bedford Intersection operating slightly better in 2018 than in 2007
 - Unsignalized intersections operating worse in 2018 than in 2007
- Hartwell/Bedford Intersection region's top 200 crash locations
- Eldred Street has a lot of cut through traffic in the evening
- Wood Street has similar volumes in both morning and afternoon with mornings being slightly busier

Good for our sanity, Good for the economy & Good for the environment

1. 3. Choose the most important sustainability features for the future HIP NATURAL environment.

a)Visible sustainability (solar, water capture)	(3) 8%
b)Decrease emissions produced by vehicles	(7) <mark>18%</mark>
c)Maximize alternative non-car transportation options	(5) 13%
d)Manage stormwater	(6) 16%
e)Minimize the use of toxic substances in construction	(1) 3%
f)Prioritize native species in green spaces	(5) 13%
g)Promote zero waste	(2) 5%

1. Choose the three most important sustainability feature for the future HIP BUILT environment. (Multiple choice)

a.Visible sustainability (solar, recycling)	(13/34) 38%
b.Decrease emissions produced by buildings	(31/34) 91%
c.Maximize alternative non-car transportation options	(22/34) 65%
d.Minimize the use of toxic substances in construction	(12/34) 35%
e.Promote zero waste	(12/34) 35%
f.LEED	(11/34) 32%

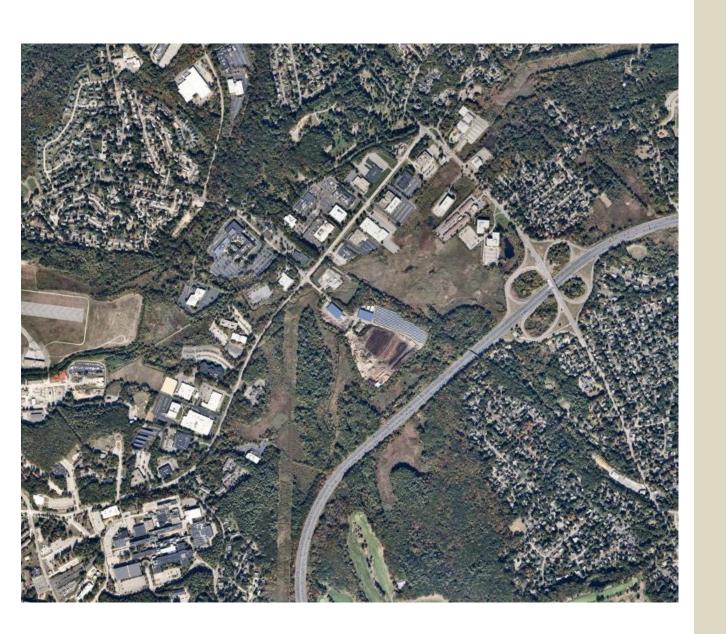
POLL QUESTION

Do you or someone in your household use a means other than the car for your commute, at least part of the way?

- Yes, I take public transit (MBTA, Lexpress)
- Yes, I take a private shuttle
- Yes, I bike
- Yes, I walk
- No, I drive the whole way







Opportunity

- Create programs that focus on moving people not cars
- Create infrastructure to support alternative modes of transportation
- Manage our roadway network
- Provide more commuter options
- Deploy traffic calming techniques
- Create safer pedestrian and bicyclist environment



- Current Zoning
- Transportation Management
 Overlay District
- Transportation Project Updates

Managing the Transportation and Traffic - Current Zoning

Site Plan Review - through TMOD or Conventional Traffic Review

TMOD Route

Chap 135 Sec7.2 Transportation Management
Overlay District (TMOD) supersedes Sec 5.1
(parking) and 5.5 (traffic) Chap 176 Section 10.2
- TMO— Hartwell Ave Area District Plan

- 5.1 Parking minimum is the maximum
- PTDM Plan—TMA and other incentives=goal to 85% SOV trips
- Mitigation fee—\$5/sqft net floor area (addt'l fees over 100,000 sqft)
- Bike parking ratio 1 per 15

Chapter 176 Section 9.4 and 9.7 Traffic Standards Applies

Conventional Zoning Route

Chap.135 Sec. 5.1 Parking Standards and Sec. 5.5 Traffic Standards Apply

- Traffic Study
- Adequate Traffic Capacity
- Consider mitigation measures to improve capacity
- Trip reduction requirements
- Desiring LOS of D
- Mitigation possible to bring LOS to D or higher.

Chapter 176 Section 9.4 and 9.7 Traffic Standards Applies

Managing the Transportation and Traffic - Other Efforts

RT4/225 Bedford Street/Hartwell Complete Street Major Infrastructure Project

- MPO Long Range Transportation Plan 2030-2034 Funding Time Band
- 25% Design Consultant Selection
- Maguire/Hartwell Intersection Improvement

Hartwell Area Transportation Management Plan

- Required by TMOD
- Outlines Mitigation Process
- Traffic calming & reducing SOV's

POLL QUESTION

With regard to transportation in the HIP, which of the following do you feel is the most important improvement to make?

- Discourage vehicles from cutting through the residential neighborhoods
- Safer access to the Minuteman Bikeway
- Reduce speeds through the neighborhoods
- More access to transit
- Safer pedestrian crossings





Managing the Transportation and Traffic - HIP Zoning

HIP Zoning - Doing better at:

- Reducing SOV's
- Promoting Alternative Modes of Transportation
- Partnering in traffic mitigation through transportation demand management

Balancing the needs of:

- Residential Neighbors
- Town of Lexington
- Businesses
- Region

While Acknowledging:

- Pandemic adds an element of uncertainty
- Post pandemic new travel and commuting patterns

Encouraging Alternative Modes

Peter Sutton - State Bicycle and Pedestrian Coordinator: MassDOT

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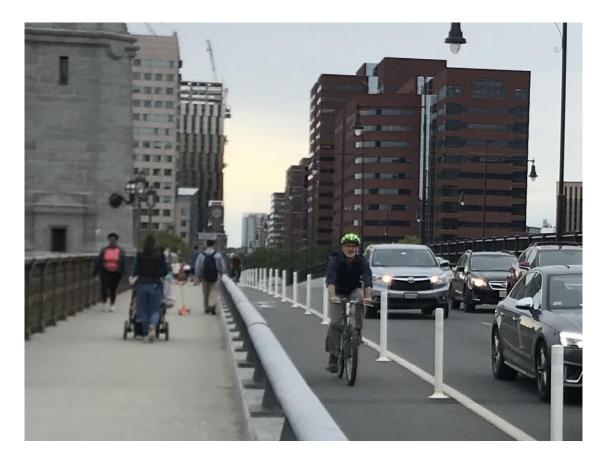
Examples of recent MassDOT projects involving placemaking

- Infraspace Under I-93
- Mattapoisett Rail Trail
- Encore Casino
- Suffolk Downs redevelopment



Examples of bicycle and pedestrian improvements







Examples of bicycle and pedestrian improvements







Examples of bicycle and pedestrian improvements







- Planning Resources:
 - Statewide Bicycle Plan
 - Statewide Pedestrian Plan
 - Municipal Resource Guide for Bikeability
 - Municipal Resource Guide for Walkability









4. Upcoming state bike and ped funding opportunities and projects

- MassDOT Shared Streets and Spaces
- o\$10M in new funding released to help manage the impacts of the pandemic during the winter months (including bus shelters!)
- Applications are being accepted on a rolling basis through March 26
- oProjects must be mostly or completely implemented by May 31
- OMASSDOT Complete Streets
- OUp to \$400K available for bike/ped/transit improvements on local roads
- Spring 2021 grant round opens April 1st until May 1st
- OMassTrails Grants
- OUp to \$300 available for feasibility, design, construction and maintenance
- o2021 grant round deadline February 1st



Pete Sutton
Bicycle and Pedestrian Program Coordinator
Massachusetts Department of Transportation,
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What is a Transportation HE GRID Management Association?





What can the **Town** do (through the zoning & permitting process) to better contribute toward its transportation-related goals?

What can **Developers** do to contribute to Lexington's transportation-related goals?

What can **the Community** do to contribute to Lexington's transportation-related goals?

Contact me directly:

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Hartwell Rezoning Initiative

How Zoning Can Help to Mitigate Traffic

Eric Bourassa, Transportation Director

December 14, 2020



What is Transportation Demand Management (TDM)?



Strategies used to influence travel behavior and encourage the use of alternative travel modes to reduce single-occupancy vehicle (SOV) use.









Range of TDM Measures

Pedestrian & Bicycling Improvements and Facilities

- Secure and safe bicycle parking and storage
- Showers and lockers for bicyclists
- Bicycle sharing
- Connectivity between adjacent sites and paths
- Infrastructure improvements (traffic calming, bicycle lanes)

Public Transit

- Bus and shuttle service
- Bus shelters

Employer-Based

- Subsidize transit (offer transit passes pre-tax or subsidize purchase)
- Flexible employee work schedules (compressed work week, flexible arrival/departure times)
- Teleworking
- Car-sharing
- Ride-sharing services (guaranteed ride home, ride-matching)
- Education (inform employees of options)

Site Design/Land Use

- Require new buildings to locate parking behind buildings, away from the street
- Limit driveway curb cuts
- Require densifications/mixed-use elements for new developments
- Promote location efficient development (oriented to transit, good walking/bicycling conditions







Parking Management Strategies

- Parking Cash-Out
- Parking Pricing
 - Charge market rate
 - Charge parking on a daily, not monthly basis
 - Charge for on-street parking
- Preferential Carpool/Vanpool Parking
- Shared Parking
- Unbundled Parking
- Short-term Parking Lease Agreements



Long Term Impact of Remote Working

Pre-COVID Work From Home

■ 18% of Massachusetts commuters worked remotely one day a week

Current Conditions

 Recent City of Boston survey found that 60% of office workers are telecommuting everyday and an additional 17% are working from home half the time.

Post-COVID Work From Home

- City of Boston survey and a recent MassInc Poll, both found that 2/3 of commuters want to work from home most of the time (3 5 days a week) after the pandemic.
- Global Workplace Analytics, an international consulting firm, estimates that 25%-30% of the workforce will be working-from-home multiple days a week by the end of 2021.

Mode Share Goals and Monitoring

Mode Share Goals

- Strive to implement a concise list of targeted and measurable TDM goals and requirements over a designated period of time (e.g., mode share goals, vehicular trips).
- Establish a well-defined process to monitor progress and compliance towards clearly established goals (e.g., vehicular trips) and outcomes (e.g., annual report or survey).

Monitoring

- Develop clear and succinct municipal bylaw language that includes very specific requirements.
- Make incremental changes to bylaws. Adopting a series of small and attainable amendments will allow for a gradual transition to implement TDM measures.

Enforcement

Establish policies for non-achievement or non-compliance of program goals or failure to implement a TDM program. For example, a municipality can hold off on issuing new permits (e.g., occupancy permit). Municipalities and developers should establish cooperative relationships – enforcement should be a final recourse.

Parking and Transportation Demand Management Ordinance – City of Cambridge

- Adopted in 1998; made permanent in 2006
- Links parking and TDM
- Trigger is creation of new non-residential parking
- Building permits, variances, etc. only issued with approved PTDM plan
- Enforcement

Large Project PTDM Plan (20+ parking spaces)

- SOV mode share commitment
 - 10% below 1990 Census Data or Traffic Impact Study
- Commit to a comprehensive set of TDM measures
- Strict monitoring and reporting provisions (every two years)
 - Employee mode split survey
 - Implementation status of TDM measures
 - Driveway and parking occupancy counts



City of Cambridge Case Study

Seven Cambridge Center (Broad Institute)

- Very low SOV rate (22% in 2019) which has been in the 20-30% range since 2006.
- Very low parking ratio (.78 spaces per 1,000 square feet).



The City of Cambridge:

- Has found that low parking ratios are consistently linked to low SOV rates in their monitored projects. Projects with higher parking ratios tend to have higher SOV rates.
- Attributes the low SOV rate to the fact that many of the tenants charge employees for parking (~50% market rate) and provides a transit subsidy (site is located one block from the Red Line) and provides free EZRide shuttle service to employees.
- Sees other projects achieving low SOV rates with similar commute benefits.

TDM and Trip Reduction in Zoning

City of Somerville - Mobility Management Plan

- Requires a Mobility Management Plan for commercial space development (50,000 sf or greater).
- Development review applications not considered complete and permits cannot be issued until Mobility Management
 Plan is approved.
- Must include commitment to control the percentage of trips made by automobiles at 50% or less and to a comprehensive set of TDM measures.
- Annual reporting required.

Town of Hadley - Trip Reduction Plan

- Requires a Trip Reduction Plan for Commercial Site Plan Approval (buildings 10,000 sf or greater).
- Trip Reduction Plan needs to identify strategies to reduce vehicle trips by 35% and



POLL QUESTION

What would encourage you and other people you know to commute at least part of the way without using your car?

- Showers/locker rooms at the workplace
- Subsidized transit pass
- Having to pay for parking
- More Access to transit
- Safer Pedestrian or bicycle route to work
- Accessible Park and Ride
- Baby Stroller & car seat storage
- Pleasant Bus Shelters
- Emergency rides home or to child's school





Questions and Discussion



December 17th, 2020 8:00 AM

Join the Discussion!

Lexington is looking for a rezoning solution that accommodates existing commercial uses but also cultivates new development in Hartwell Avenue.

We have long-range visualization and zoning recommendations, but actual improvements have not been designed yet and the Town has not taken any rezoning action.

Join the Town staff for a virtual coffee hour to get an update on our progress and how you can participate.



UPCOMING MEETINGS

- Thursday December 17th at 8am
 - Thursday January 7th at 7pm
 - Thursday January 21st at 7pm

Catch up from past meetings at HIPLexington.com

#LexTalkHartwell #HIPLexington



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Thank You!